

**CERTIFICATE UNDER 37 CFR 3.73(b)**

Applicant:	Adam Ferrari		
Application/Patent No.:	09/961,131 / 7,617,184	Filed/Issued:	09-21-2001 / 11-10-2009
Confirmation No.:	4504		
Entitled:	SCALABLE HIERARCHICAL DATA-DRIVEN NAVIGATION SYSTEM AND METHOD FOR INFORMATION RETRIEVAL		

ENDECA TECHNOLOGIES, INC. , a DELAWARE CORPORATION

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 012742, Frame 0703, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

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☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

Matthew H. Grady, Reg. No. 52,957

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Title